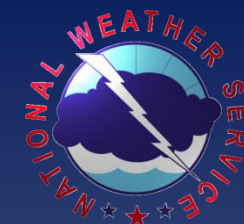




Cooler Weather Through Monday

Southwest Lower Michigan



Near Record Minimum High Temperatures Well Below Normal Temperatures

Location		Forecast Low/High Temperature (°F)	Normal Low/High Temperature (°F)	Record Minimum High Temperature (°F)
Grand Rapids	Sunday, July 28 th	52/64	62/82	61 (1981)
	Monday, July 29 th	54/70	62/82	66 (1991)
Lansing	Sunday, July 28 th	50/64	61/82	61 (1981)
	Monday, July 29 th	51/70	61/82	64 (1991)
Muskegon	Sunday, July 28 th	56/64	62/80	63 (1981)
	Monday, July 29 th	55/67	62/80	66 (1991)

Much cooler than normal temperatures will remain in place in Southwest Lower Michigan through Monday. In the table to the left, the third column lists overnight lows and daytime highs on Sunday and Monday for Grand Rapids, Lansing, and Muskegon. Compare those forecasts with normal highs and lows in column 4 as well as the record minimum high temperatures in column 5.

High temperatures will flirt with the record minimum highs for these dates. Highs will be around 12-18 degrees below normal.



NWS Grand Rapids
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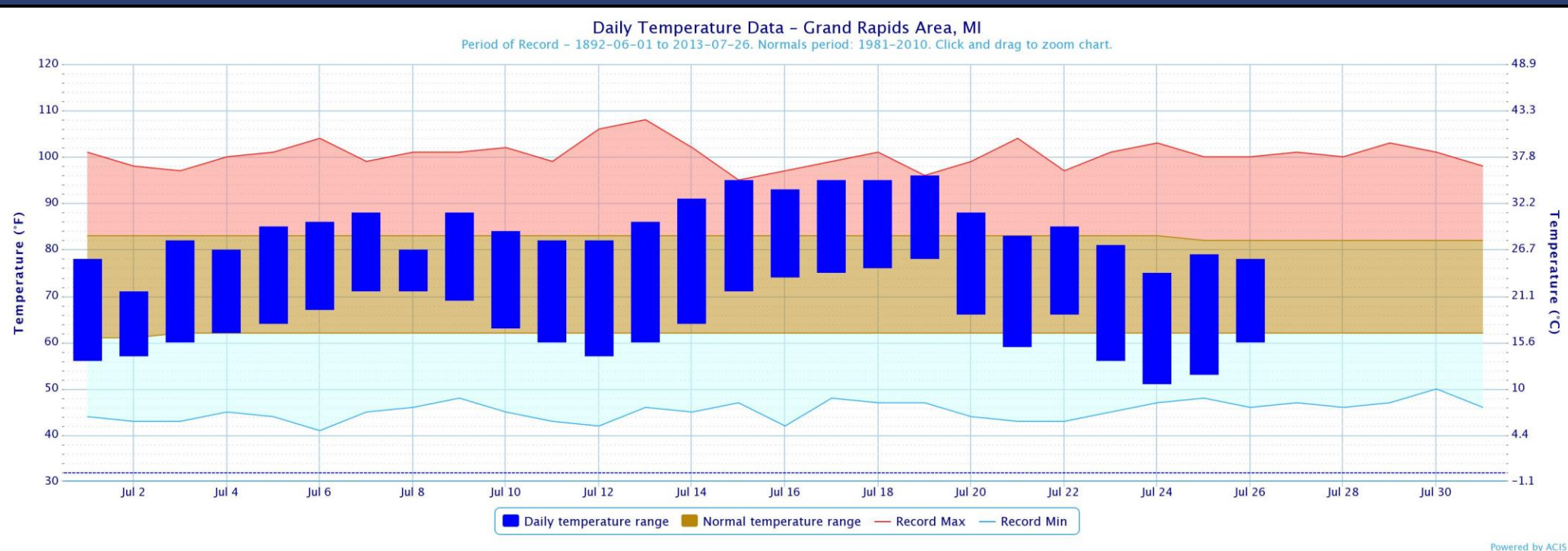
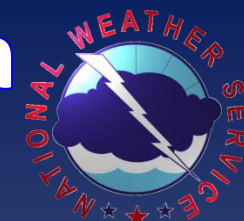
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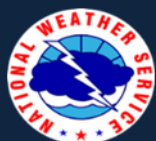
July 2013 – Daily Temperature Graph Grand Rapids, MI



In this graph, the vertical blue bars represent the daily temperature range at Grand Rapids during July 2013 through the 26th. The top of the blue bar is the daily high, and the bottom of the blue bar is the daily low. The red line at the top is the record maximum temperature for each date. The blue line at the bottom is the record minimum temperature for each date. The light brown area represents the normal daily temperature range, based on climatological normals from 1981-2010. For example, the high and low temperatures on July 10th and 21st were near normal. This graph shows the period of hot weather from July 14-19. Recently, however, the daily temperature range (blue bar) has been sliding down relative to normal (light brown). That trend continues through Monday.



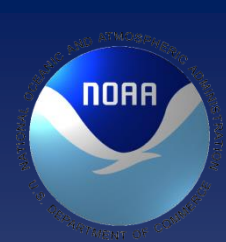
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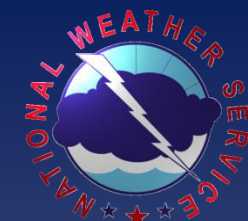
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July 28, 2013 – Cold Spell Southwest Lower Michigan



Sunday's Weather

Breezy and Cool
with Lake Effect
Rain Showers
and Scattered
Thunderstorms

Breezy

60s

70s

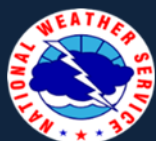
Lake Michigan will be especially unstable Saturday night through Sunday as cooler air flows from the west-northwest over the relatively warmer waters. Given this instability, waterspouts are possible. This is similar to a fall season lake-effect event, so showers are likely tonight through tomorrow night.

Beach conditions are still expected to be hazardous through Monday morning:

- 3-6 foot waves
- West – Northwest winds 10-20 mph
- Strong structural currents
- Strong long shore currents
- Rip currents possible



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